

What is claimed is:

1 ~~Sub~~ 1 A decoding method of moving image signal, being a decoding
2 method of moving image signal for decoding at least two or more motion vectors
3 relating to the present processing pixel block, compensating the motion of the
4 decoded frame corresponding to each one of said two or more motion vectors, and
5 generating two or more predicted images relating to the present processing pixel
6 block,

7 wherein the predicted image used in reconstruction of the present
8 processing pixel block is selected depending on presence or absence of decoding
9 error contained in said two or more predicted images.

1 2. A decoding method of moving image signal of claim 1, wherein
2 if there are plural predicted images free from decoding error in said two or more
3 predicted images,

4 the predicted image produced from the latest decoded frame in time
5 out of said plural predicted images free from decoding error is used in
6 reconstruction of the present processing pixel block.

1 3. A coding method of moving image signal, being a coding method
2 of moving image signal for detecting and coding at least two or more motion
3 vectors relating to the present processing pixel block, characterized by:

4 inter-coding the present processing pixel block when the correlation
5 of two or more predicted images compensated of motion by said two or more
6 motion vectors is high, and

7 intra-coding the present processing pixel block when the correlation
8 of said two or more predicted images is low.

-21-

1 4. A coding method of moving image signal, being a coding method
2 of moving image signal for detecting and coding at least two or more motion
3 vectors relating to the present processing pixel block, characterized by:

4 using the predicted image produced from the latest decoded frame in
5 time out of two or more predicted images compensated of motion by said two or
6 more motion vectors is used in coding of the present processing pixel block.

1 5. A decoding apparatus of moving image signal comprising:

2 variable length code decoding means for decoding at least two or
3 more motion vectors relating to the present processing pixel block,

4 motion compensation means for compensating the motion of coded
5 frame corresponding to each one of said two or more motion vectors, and
6 generating two or more predicted images relating to the present processing pixel
7 block,

8 bit error detecting means for detecting a bit error from the output of
9 said variable length code decoding means,

10 memory means for storing the bit error detecting result of said bit
11 error detecting means, and

12 predicted image selecting means for recognizing presence or absence
13 of decoding error contained in said two or more predicted images, and selecting
14 the predicted image to be used in reconstruction of the present processing pixel
15 block.

1 6. A decoding apparatus of moving image signal of claim 5,
2 wherein the bit error detecting means detects bit error in the pixel block when the
3 variable length code of the pixel block decoded by the variable length code

4 decoding means is contradictory to a specified standard.

1 7. A decoding apparatus of moving image signal of claim 5,
2 wherein the memory means stores bit errors in plural frames by plotting the pixel
3 blocks in which bit error is detected in each frame in a map form.

1 8. A decoding apparatus of moving image signal of claim 7,
2 wherein the memory means comprises plural decoding error map memories
3 storing each frame consecutive in time, and also has changeover means, and
4 therefore said plural decoding error map memories are changed over by said
5 changeover means, and issued.

1 9. A coding apparatus of moving image signal comprising:
2 motion vector detecting means for detecting at least two or more
3 motion vectors relating to the present processing pixel block,

4 motion compensation means for issuing plural predicted images from
5 the output of said motion vector detecting means, and

6 intra/inter judging means for inter-coding the present processing
7 pixel block when the correlation of two or more predicted images compensated of
8 motion by said two or more motion vectors as the output of said motion
9 compensation means is high, and intra-coding the present processing pixel block
10 when the correlation of said two or more predicted images is low.

1 10. A coding apparatus of moving image signal of claim 9, further
2 comprising:

3 predicted image combining means for combining two or more
4 predicted images compensated by said two or more motion vectors, and

-23-

5 prediction error calculating means for calculating the prediction
6 error from the output of said predicted image combining means and the macro
7 block of the present frame,

8 wherein the intra/inter judging means judges before processing by
9 comparing the variance of present processing pixel block and the variance of
10 prediction error from the output of the prediction error calculating means to judge
11 processing before intra/inter coding, and processes next intra/inter judgement only
12 when judged to be inter-coding.

1 11. A coding apparatus of moving image signal of claim 10,
2 wherein said predicted image combining means issues predicted image produced
3 from the latest decoded frame in time out of two or more predicted images
4 compensated of motion by said two or more motion vectors for use in coding of
5 the present processing pixel block.

Oct 63